

IN THE CLAIMS:

Please ADD claims 36-73. Please also AMEND the claims as follows:

1 1-9. (cancelled)

1 | ~~10~~. (presently amended) A method of processing in a network server,
2 comprising the steps of:

3 receiving from a remote mobile client a representation of a geographical location,
4 said representation being transmitted at least partially via a packet switched
5 communication network at a transport layer or above by communicating with a first
6 wireless network access point at a lower layer using a first air interface protocol;
7 sending to said remote mobile client an indication of a second air interface
8 protocol and a set of parameters for use in accessing a second wireless network access
9 point using said second air interface protocol; and

10 sending to said second wireless network access point an indication of said remote
11 mobile client and a code requesting said second wireless network access point to provide
12 wireless access to said remote mobile client;

13 wherein the server method is implemented to centrally manage a roaming
14 operation for the remote mobile client and the remote mobile client can perform
15 application layer, client-server interactions with a network application server when
16 coupled to the first wireless network access point and later when coupled to the second
17 wireless network access point.

1 2 ~~11~~. (previously presented) The method of Claim ~~10~~ wherein said set of
2 parameters comprises a software module defined to execute over a Java virtual machine,
3 said software module defining at least a portion of a software layer of said second air
4 interface.

1 3 ~~12~~. (previously presented) The method of Claim ~~10~~, wherein said set of
2 parameters comprises a software module, an executable software program is described as
3 a resource in a resource description language, and the software module comprises a
4 subset of submodules that are not already present in and need to be loaded into the
5 remote mobile client in order to build the executable software program.

1 4 ~~13~~. (presently amended) The method of Claim ~~10~~, further comprising:

2 selecting said second wireless network access point based on an optimization
3 criterion, ~~said optimization criterion~~ that is a function of at least one user preference.

1 ⁵ ~~14~~. (presently amended) The method of Claim ¹ ~~10~~, further comprising:

2 selecting said second wireless network access point from a pool of federated
3 wireless access points supplied by registered associates, whereby said selection is based
4 at least in part on said representation and an optimization criterion that is a function of at
5 least one user preference.

1 15. (cancelled)

1 ⁸ ~~16~~. (presently amended) A method of selling federated wireless access services
2 with the assistance of associates, the federated wireless access services accessible to
3 users of a merchant web site system which provides services for allowing users to
4 electronically lease wireless access connectivity, the method comprising:

5 enrolling a plurality of associates using an on-line registration system, whereby a
6 respective one of said associates indicates an air interface protocol used by a wireless
7 access point system supplied by said respective associate;

8 receiving from a remote mobile client a representation of a geographical location,
9 said representation being transmitted using a first air interface protocol via a first wireless
10 network access point;

11 at least partially in response to the representation, selecting a second wireless
12 network access point to provide wireless access to the remote client;

13 sending to said remote client an indication of a second air interface protocol and
14 a set of parameters for use in accessing the second wireless network access point using
15 said second air interface protocol; and

16 sending to the second wireless network access point a code requesting said
17 ~~selected~~ second wireless network access point to provide wireless access to said remote
18 client.

1 ⁹ ~~17~~. (previously presented) The method of Claim ⁸ ~~16~~ wherein said set of
2 parameters comprises a software module defined to execute over a Java virtual machine,
3 said software module defining at least a portion of a software layer of said second air
4 interface.

1 ¹⁰18. (previously presented) The method of Claim ⁸16, wherein said set of
2 parameters comprises a software module, an executable software program is described as
3 a resource in a resource description language, and the software module comprises a
4 subset of submodules that are not already present in and need to be loaded into the
5 remote mobile client in order to build the executable software program.

1 ¹¹19. (previously presented) The method of Claim ⁸16, further comprising:
2 selecting said second wireless network access point based on an optimization
3 criterion, ~~wherein said optimization criterion~~ that is a function of at least one user
4 preference.

1 ¹²20. (previously presented) The method of Claim ⁸16, further comprising:
2 maintaining a first financial record used for billing said remote mobile client; and
3 maintaining a second financial record used for compensating the associate
4 associated with said second wireless network access point.

1 ¹⁶21. (presently amended) A For use in a system comprising a plurality of
2 wireless network access points that are coupled via a packet switched data network to a
3 remote roam-management server that is adapted to manage compatibility aspects of
4 roaming operations of a wireless terminal apparatus as the wireless terminal apparatus
5 changes geographical locations and roams from the coverage areas of different ones of
6 the wireless access points that use different communication protocols, the wireless
7 terminal apparatus comprising:

8 a wireless transceiver adapted to communicate with a first network access point
9 using a first air interface protocol;

10 a software function that communicates ~~at least~~ partially via a wireless path using
11 the first air interface protocol and partially via a path through the packet switched data
12 network with a corresponding peer software function in a the remote roam-management
13 server, the communication being performed at the transport layer or above;

14 a programmable software radio processor adapted to implement at least one of a
15 physical layer and a link layer of a second ~~wireless~~ air interface protocol; and

16 a software radio configuration module coupled to said transceiver;

17 wherein to implement handoffs to selected wireless access points supporting
18 previously unknown air interface protocol features, said wireless terminal apparatus is
19 configured to:

20 (i) perform a data transaction with said remote ~~roam-management~~ roam-
21 management server to identify to said remote roam-management server a geographical
22 location associated with said wireless terminal apparatus, and in response thereto, to
23 obtain wirelessly at least one software module comprising program instructions and to
24 pass said at least one software module to said software radio processor;

25 (ii) execute in said software radio processor said program instructions in said
26 at least one software module, the program instructions being executed to implement at
27 least a portion of the second air interface protocol in order support communication with a
28 second wireless network access point that uses the second air interface protocol; and

29 (iii) perform a handoff operation to switch the transceiver from the first
30 wireless network access point using the first air interface protocol to the second wireless
31 network access point using the second air interface protocol, and to support
32 communication with at least one remote network server at the transport layer or above
33 using said first air interface protocol prior to the handoff and using said second air
34 interface protocol prior subsequent to the handoff operation;

35 wherein the at least one software module is received from the remote ~~roam~~
36 ~~management~~ roam-management server to allow the wireless terminal apparatus to
37 dynamically roam onto a network that uses the second air interface protocol, wherein a
38 complete set of program code ~~needed~~ used to implement the second air interface protocol
39 was not present in the wireless terminal apparatus prior to the handoff operation.

1 ¹⁶ ~~17~~ 22. (presently amended) The wireless terminal apparatus according to Claim ¹⁶ ~~21~~,
2 wherein the program instructions wirelessly received in the at least one software module
3 are in the native machine language of the software radio processor.

1 ¹⁶ ~~18~~ 23. (presently amended) The wireless terminal apparatus according to Claim ¹⁶ ~~21~~,
2 wherein the program instructions wirelessly received in the at least one software module
3 are pre-compiled into the native machine language of the software radio processor before
4 being executed.

1 ³⁰~~24~~. (presently amended) For use in a system comprising a plurality of wireless
2 network access points that are coupled via a packet switched data network to a remote
3 roam-management server that is adapted to manage compatibility aspects of roaming
4 operations of a wireless terminal apparatus as the wireless terminal apparatus changes
5 geographical locations and roams from the coverage areas of different ones of the
6 wireless access points that use different communication protocols, the wireless terminal
7 apparatus comprising:

8 a wireless transceiver adapted to communicate with a first network access point
9 using a first air interface protocol;

10 a software function that communicates ~~at least~~ partially via a wireless path using
11 the first air interface protocol and partially via a path through the packet switched data
12 network with a corresponding peer software function in a the remote roam-management
13 server, the communication being performed at the transport layer or above;

14 a programmable software radio processor adapted to implement at least one of a
15 physical layer and a link layer of a second ~~wireless~~ air interface protocol; and

16 a software radio configuration module coupled to said transceiver;

17 wherein to implement handoffs to selected wireless access points supporting
18 previously unknown air interface protocol features, said wireless terminal apparatus is
19 configured to:

20 (i) perform a data transaction with said remote ~~roam-management~~ roam-
21 management server to identify to said remote roam-management server an indication of
22 radio contact with a local wireless network access point, and in response thereto, to
23 obtain wirelessly at least one software module comprising program instructions and to
24 pass said at least one software module to said software radio processor;

25 (ii) execute in said software radio processor said program instructions in said
26 at least one software module to implement at least a portion of the second air interface
27 protocol in order support communication with the local wireless network access point
28 that uses the second air interface protocol; and

29 (iii) perform a handoff operation to switch the transceiver from the first
30 wireless network access point using the first air interface protocol to the local wireless
31 network access point using the second air interface protocol, and to support

32 communication with at least one remote network server at the transport layer or above
33 using said first air interface protocol prior to the handoff and using said second air
34 interface protocol ~~prior~~ subsequent to the handoff operation;

35 wherein the software module is received from the remote ~~roam-management~~
36 roam-management server to allow the wireless terminal apparatus to dynamically roam
37 onto a network that uses the second air interface protocol, wherein a complete set of
38 program code ~~needed~~ used to implement the second air interface protocol was not present
39 in the wireless terminal apparatus prior to the handoff operation.

1 ~~31~~³² (presently amended) The wireless terminal apparatus according to Claim ~~34~~³⁰,
2 wherein the program instructions wirelessly received in the at least one software module
3 are in the native machine language of the software radio processor.

1 ~~30~~³² (presently amended) The wireless terminal apparatus according to Claim
2 ~~24~~³⁰, wherein the program instructions wirelessly received in the at least one software
3 module are pre-compiled into the native machine language of the software radio
4 processor before being executed.

1 ~~44~~⁴⁴ (presently amended) A wireless terminal apparatus that is configured to
2 roam from a first wireless access point that uses a first air interface protocol to a second
3 wireless access point that uses a second air interface protocol, comprising:

4 at least one client-side application layer program that communicates with at least
5 one ~~remote-network~~ remote roam-management server using an application layer protocol
6 that layers over the first air interface protocol at a first time before a roam operation and
7 over the second air interface protocol at a second time after the roam operation, wherein
8 the roam operation is performed to switch wireless access from the first wireless access
9 point to the second wireless access point;

10 a software radio configuration module that communicates with a the remote roam
11 management server, wherein the software radio configuration module is operative to
12 report to the remote roam management server dynamic location-based information that
13 indicates that the wireless terminal apparatus is in a locality of the second wireless access
14 point, and ~~at least partially in response thereto,~~ when it is determined that the second
15 wireless access point supports at least one previously unknown air interface protocol
16 feature and additional software should be downloaded to facilitate communication with

17 the second wireless access point, to receive from the remote roam management server a
18 second executable software module; and
19 a software radio transceiver coupled to the software radio configuration module,
20 wherein prior to the roam operation the software radio transceiver is operative to
21 implement at least a portion of the first air interface protocol according to a first
22 executable software module, and after the roam operation the software radio transceiver
23 is operative to implement at least a portion of at least one of a physical layer and a link
24 layer of the second air interface protocol according to the second executable software
25 module, and wherein the roam-management server is a centralized network server that is
26 geographically external to both the first and second wireless access points and the roam-
27 management server manages compatibility aspects of network roaming as the wireless
28 terminal apparatus roams to different ones of a plurality of wireless access points that use
29 different communications protocols.

61 1 ⁴⁵28. (previously presented) The apparatus according to Claim ⁴⁴27, wherein the
2 software radio configuration module communicates with the remote roam management
3 server via a communication management session at a layer above a transport layer in a
4 communications protocol stack and the remote roam management server maintains a
5 database record regarding the currently loaded software maintained in the wireless
6 terminal apparatus.

1 ⁴⁶29. (previously presented) The apparatus according to Claim ⁴⁴27, wherein said
2 second executable software module is defined to execute over a Java virtual machine, and
3 is translated into a more efficient execution language prior to execution.

1 ⁴⁷30. (presently amended) The apparatus according to Claim ⁴⁴27, wherein said
2 software radio configuration module makes use of a resource description language
3 description to identify a set of executable software resources needed to implement a
4 software radio program that implements at least a portion of a layer of an air interface
5 protocol, and said software radio configuration module uses the resource description
6 language description to identify a subset of one or more executable software modules that
7 are not already present in the apparatus and that need to be loaded into the apparatus in
8 order to build the software radio program that implements the second air interface
9 protocol.

1 ⁴⁸31. (presently amended) The apparatus according to Claim ⁴⁴27, wherein the
2 terminal apparatus is also configured to roam to a third wireless access point having a
3 known air interface protocol without the need to download any new executable program
4 instructions to execute on the software radio processor in order to complete the roam
5 operation. ~~wherein said executable software modules respectively implement first and~~
6 ~~second physical layers of the first and second air interface protocols.~~

1 ⁴⁹32. (presently amended) The apparatus according to Claim ⁴⁴27, wherein the first
2 and second air interface protocols respectively correspond to an open road transceiver air
3 interface protocol and a toll tag air interface protocol. ~~31, wherein the first physical~~
4 ~~layer corresponds to an open road transceiver physical layer and said second physical~~
5 ~~layer corresponds to a toll tag physical layer.~~

1 ¹⁹33. (presently amended) The apparatus according to Claim ¹⁶21, wherein the
2 terminal apparatus is also configured to roam to a third wireless access point having a
3 known air interface protocol without the need to download any new executable program
4 instructions to execute on the software radio transceiver in order to complete the roam
5 operation. ~~32, wherein said first physical layer corresponds to a wireless macrocellular~~
6 ~~network physical layer and said second physical layer corresponds to a local area~~
7 ~~wireless access physical layer.~~

1 ⁵⁰34. (presently amended) The apparatus according to Claim ⁴⁴27, further
2 comprising:
3 a global positioning system (GPS) receiver and a GPS processor, said GPS
4 processor coupled to said GPS receiver;
5 wherein
6 (i) said GPS processor uses a set of GPS signals received via said GPS
7 receiver to compute a representation of a geographical location;
8 (ii) said software radio transceiver transmits said representation to said remote
9 roam management server; and
10 (iii) said remote roam management server uses the said representation of the
11 geographical location to identify the second air interface protocol.

1 ⁵¹35. (presently amended) The apparatus according to Claim ⁴⁴27, further
2 comprising:

3 a local positioning system (LPS) receiver and a LPS processor, said LPS
4 processor coupled to said LPS receiver;
5 wherein
6 (iii) said LPS processor uses a set of LPS signals received via said LPS
7 receiver to compute a representation of a geographical location;
8 (iv) said software radio transceiver transmits said representation to said remote
9 roam management server; and
10 (iii) said remote roam management server uses the said representation of the
11 geographical location to identify the second air interface protocol.

1 ~~52~~ ⁴⁴ 36. (new) The apparatus according to Claim ~~27~~ ⁴⁴, wherein the dynamic location-
2 based information is indicative of a set of geographical coordinate information.

1 ~~53~~ ⁴⁴ 37. (new) The apparatus according to Claim ~~27~~ ⁴⁴, wherein the dynamic location-
2 based information is indicative having made radio contact with the second wireless
3 access point.

1 ~~54~~ ⁵³ 38. (new) The apparatus according to Claim ~~37~~ ⁵³, wherein the dynamic location-
2 based information relates to the identity of the second wireless access point which has a
3 fixed geographical location and a corresponding wireless coverage area.

1 ~~55~~ ⁵³ 39. (new) The apparatus according to Claim ~~37~~ ⁵³, wherein the wireless terminal
2 apparatus scans a set of one or more access channels to determine when it has made radio
3 contact with the second wireless access point.

1 ~~56~~ ⁴⁴ 40. (new) The apparatus according to Claim ~~27~~ ⁴⁴, wherein the first air interface
2 protocol corresponds to a satellite communications air interface protocol, the second air
3 interface protocol corresponds to a terrestrial cellular communications air interface
4 protocol, and the roam operation is from a satellite overlay network to a terrestrial
5 cellular communications network.

1 ~~57~~ ⁴⁴ 41. (new) The apparatus according to Claim ~~27~~ ⁴⁴, wherein the first air interface
2 protocol corresponds to a satellite communications air interface protocol, the second air
3 interface protocol corresponds to a wireless local area network air interface protocol, and
4 the roam operation is from a satellite overlay network to a wireless local area network
5 access point.

C 1 ⁶⁵~~40~~ (new) The apparatus according to Claim ⁴⁴~~27~~, wherein the first air interface
2 protocol corresponds to a terrestrial cellular communications air interface protocol, the
3 second air interface protocol corresponds to a wireless local area network air interface
4 protocol, and the roam operation is from a terrestrial cellular communications network to
5 a wireless local area network access point.

1 ⁵⁸~~42~~ (new) The apparatus according to Claim ⁴⁴~~27~~, wherein said software radio
2 configuration module makes use of a resource description language description to
3 identify software resources resident in the wireless terminal apparatus, said software
4 radio configuration module causes to be coupled at least a portion of the resource
5 description language description to a remote software download server to enable the
6 remote software download server to identify downloadable software resources that are
7 not already resident in the wireless terminal apparatus and that are needed by the second
8 executable software module for use in accessing the second wireless access point,
9 whereby the coupling of the resource description language description allows the remote
10 software download server to download to the wireless terminal apparatus only the
11 downloadable software resources for the second executable software module that are not
12 already resident in the wireless terminal apparatus.

B 1 ⁵⁹~~43~~ (new) The apparatus according to Claim ⁵⁸~~42~~, wherein the remote roam
2 management server comprises the software download server, the roam management
3 server maintains a client record indicative of a set of software modules currently resident
4 in the wireless terminal apparatus, and the packet switched data network comprises at
5 least a path through the global Internet.

6 ⁶⁰~~44~~ (new) The apparatus according to Claim ⁵⁸~~42~~, wherein:
7 the downloadable software resources comprise a set of executable software
8 submodules which collectively constitute the second executable software module, and
9 the remote software download server uses push technology to push required ones
10 of the set of executable software submodules of the second executable software module
11 to the wireless terminal apparatus based upon identifying a subset of one or more of the
12 set of executable software submodules that are not already resident in the wireless
13 terminal apparatus and that need to be downloaded into the wireless terminal apparatus
14 for use in accessing the second wireless access point.

1 ⁶¹~~45.~~ (new) The apparatus according to Claim ⁴⁴~~27~~, wherein:
2 the second executable software program is described according to a resource
3 description language, and
4 the second executable software module comprises a subset of executable
5 submodules that are not already resident in and need to be downloaded into the wireless
6 terminal apparatus in order to enable the wireless terminal apparatus to access the second
7 wireless access point, the subset of executable submodules supplying at least one air
8 interface protocol feature that was not previously available in the wireless terminal
9 apparatus but which is supported by the second wireless access point.

1 ⁶²~~46.~~ (new) The apparatus according to Claim ⁴⁴~~27~~, wherein the second wireless
2 access point is selected based on an optimization criterion.

1 ⁶³~~47.~~ (new) The apparatus according to Claim ⁶²~~46~~, wherein the optimization
2 criterion is a function of at least one user preference.

1 ⁶⁴~~48.~~ (previously presented) The apparatus according to Claim ⁴⁴~~27~~, wherein the
2 software radio configuration module communicates with the remote roam management
3 server via a communication management session at a transport layer in a communications
4 protocol stack.

1 ²⁰~~49.~~ (new) The apparatus according to Claim ¹⁶~~21~~, wherein the geographical
2 location is identified in terms of a set of GPS coordinates and the packet switched data
3 network comprises at least a portion of the Internet.

1 ²¹~~50.~~ (new) The apparatus according to Claim ¹⁶~~21~~, wherein the first air interface
2 protocol corresponds to a satellite communications air interface protocol, the second air
3 interface protocol corresponds to a cellular communications air interface protocol, and
4 the roam operation is from a satellite overlay network to a terrestrial cellular
5 communications network.

1 ²²~~51.~~ (new) The apparatus according to Claim ¹⁶~~21~~, wherein the first air interface
2 protocol corresponds to a satellite communications air interface protocol, the second air
3 interface protocol corresponds to a wireless local area network air interface protocol, and
4 the roam operation is from a satellite overlay network to a wireless local area network
5 access point.

1 ²³~~52~~. (new) The apparatus according to Claim ¹⁶~~21~~, wherein the first air interface
2 protocol corresponds to a terrestrial cellular communications air interface protocol, the
3 second air interface protocol corresponds to a wireless local area network air interface
4 protocol, and the roam operation is from a terrestrial cellular communications network to
5 a wireless local area network access point.

1 ²⁴~~53~~. (new) The apparatus according to Claim ¹⁶~~21~~, wherein said software radio
2 configuration module makes use of a resource description language description to
3 identify software resources resident in the wireless terminal apparatus, said software
4 radio configuration module causes to be coupled at least a portion of the resource
5 description language description to a remote software download server to enable the
6 remote software download server to identify downloadable software resources that are
7 not already resident in the wireless terminal apparatus and that are needed by the second
8 executable software module for use in accessing the second wireless access point,
9 whereby the coupling of the resource description language description allows the remote
10 software download server to download to the wireless terminal apparatus only the
11 downloadable software resources for the second executable software module that are not
12 already resident in the wireless terminal apparatus.

1 ²⁵~~54~~. (new) The apparatus according to Claim ²⁴~~53~~, wherein the remote software
2 download server comprises a portion of the remote roam management server and the
3 remote roam management server maintains a database record regarding the currently
4 loaded software maintained in the wireless terminal apparatus.

1 ²⁶~~55~~. (new) The apparatus according to Claim ²⁴~~53~~, wherein:
2 the downloadable software resources comprise a set of executable software
3 submodules which collectively constitute the second executable software module, and
4 the remote software download server uses push technology to push required ones
5 of the set of executable software submodules of the second executable software module
6 to the wireless terminal apparatus based upon identifying a subset of one or more of the
7 set of executable software submodules that are not already resident in the wireless
8 terminal apparatus and that need to be downloaded into the wireless terminal apparatus
9 for use in accessing the second wireless access point.

1 ²⁷~~56~~. (new) The apparatus according to Claim ¹⁶~~21~~, wherein the complete set of
2 program code used to implement the second air interface protocol includes at least one
3 downloadable software sub-module that implements at least a protocol feature of the
4 second air interface protocol that is available to the second wireless access point but not
5 available to the wireless terminal apparatus prior to the downloadable software sub-
6 module being downloaded thereto.

1 ²⁸~~57~~. (new) The apparatus according to Claim ¹⁶~~21~~, wherein the second wireless
2 access point is selected based on an optimization criterion.

1 ²⁹~~58~~. (new) The apparatus according to Claim ²⁸~~57~~, wherein the optimization
2 criterion is a function of at least one user preference.

1 ³³~~59~~. (new) The apparatus according to Claim ³⁰~~24~~, wherein the wireless terminal
2 apparatus scans a set of one or more radio access channels to determine when it has made
3 radio contact with the second wireless access point.

1 ³⁴~~60~~. (new) The apparatus according to Claim ³⁰~~24~~, wherein the first air interface
2 protocol corresponds to a satellite communications air interface protocol, the second air
3 interface protocol corresponds to a cellular communications air interface protocol, and
4 the roam operation is from a satellite overlay network to a terrestrial cellular
5 communications network.

1 ³⁵~~61~~. (new) The apparatus according to Claim ³⁰~~24~~, wherein the first air interface
2 protocol corresponds to a satellite communications air interface protocol, the second air
3 interface protocol corresponds to a wireless local area network air interface protocol, and
4 the roam operation is from a satellite overlay network to a wireless local area network
5 access point.

1 ³⁶~~62~~. (new) The apparatus according to Claim ³⁰~~24~~, wherein the first air interface
2 protocol corresponds to a terrestrial cellular communications air interface protocol, the
3 second air interface protocol corresponds to a wireless local area network air interface
4 protocol, and the roam operation is from a terrestrial cellular communications network to
5 a wireless local area network access point.

1 ³⁸~~63~~. (new) The apparatus according to Claim ³⁰~~24~~, wherein said software radio
2 configuration module makes use of a resource description language description to
3 identify software resources resident in the wireless terminal apparatus, said software

radio configuration module causes to be coupled at least a portion of the resource description language description to a remote software download server to enable the remote software download server to identify downloadable software resources that are not already resident in the wireless terminal apparatus and that are needed by the second executable software module for use in accessing the second wireless access point, whereby the coupling of the resource description language description allows the remote software download server to download to the wireless terminal apparatus only the downloadable software resources for the second executable software module that are not already resident in the wireless terminal apparatus..

³⁹~~64~~. (new) The apparatus according to Claim ³⁸~~63~~, wherein the remote roam management server comprises the software download server, the roam management server maintains a client record indicative of a set of software modules currently resident in the wireless terminal apparatus, and the packet switched data network comprises at least a path through the global Internet.

⁴⁰~~65~~. (new) The apparatus according to Claim ³⁸~~63~~, wherein:
the downloadable software resources comprise a set of executable software submodules which collectively constitute the second executable software module, and the remote software download server uses push technology to push required ones of the set of executable software submodules of the second executable software module to the wireless terminal apparatus based upon identifying a subset of one or more of the set of executable software submodules that are not already resident in the wireless terminal apparatus and that need to be downloaded into the wireless terminal apparatus for use in accessing the second wireless access point.

³⁵~~66~~ ³⁷. (new) The apparatus according to Claim ³⁶~~62~~, wherein the complete set of program code used to implement the second air interface protocol includes at least one downloadable software sub-module that implements at least a protocol feature of the second air interface protocol that is available to the second wireless access point but not available to the wireless terminal apparatus prior to the downloadable software sub-module being downloaded thereto.

⁴¹~~66~~. (new) The apparatus according to Claim ³⁰~~24~~, wherein the second wireless access point is selected based on an optimization criterion.

- 1 ⁴²~~67~~. (new) The apparatus according to Claim ⁴¹~~66~~, wherein the optimization
2 criterion is a function of at least one user preference.
- 1 ⁶~~68~~. (new) The method according to Claim ¹~~10~~, wherein the set of parameters
2 comprises at least one executable program instruction.
- 1 ⁷~~69~~. (new) The method according to Claim ¹~~10~~, wherein the set of parameters
2 comprises at least one executable program instruction to be executed by a software radio
3 processor located in the remote mobile client.
- 1 ¹³~~70~~. (new) The method according to Claim ⁸~~16~~, wherein the set of parameters
2 comprises at least one executable program instruction.
- 1 ¹⁴~~71~~. (new) The method according to Claim ⁸~~16~~, wherein the set of parameters
2 comprises at least one executable program instruction to be executed by a software radio
3 processor located in the remote mobile client.
- 1 ¹⁵~~72~~. (new) The apparatus according to Claim ⁸~~16~~, wherein the respective one of
2 the associates indicates the air interface protocol during enrollment by entering data into
3 a web page supplied by the merchant web site.
- 1 ⁴³~~73~~. (new) The apparatus according to Claim ³⁰~~24~~, wherein the wireless terminal
2 apparatus is also configured to roam to a third wireless access point having a known air
3 interface protocol without the need to download any new executable program instructions
4 to execute on the software radio processor in order to complete the roam operation.
-